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NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
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NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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FILE COVERS 1907 - 13 Apr 2008 VOL 148 ISS 16
FILE LAST UPDATED: 11 Apr 2008 (20080411/ED)

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=> S CYHALOTHRIN
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          1726 CYHALOTHRIN
             2 CYHALOTHRINS
L1        1726 CYHALOTHRIN
                (CYHALOTHRIN OR CYHALOTHRINS)
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=> S L1 AND CHLORINATION
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           447 CHLORINATIONS
         81401 CHLORINATION
                (CHLORINATION OR CHLORINATIONS)
L2           5 L1 AND CHLORINATION
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=> D IBIB ABS HITSTR TOT

L2 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:346943 CAPLUS
DOCUMENT NUMBER: 146:100882
TITLE: Synthesis of carboxylic acid chlorides from bis(trichloromethyl) carbonate
AUTHOR(S): Xu, Xiangsheng; Du, Xiaohua; Zheng, Mei; Xu, Zhenyuan
CORPORATE SOURCE: Catalytic Hydrogenation Research Center, Zhejiang University of Technology, Hangzhou, 310014, Peop. Rep. China
SOURCE: Nongyao (2005), 44(6), 265-266
CODEN: NONGFP; ISSN: 1006-0413
PUBLISHER: Nongyao Bianjibu
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
OTHER SOURCE(S): CASREACT 146:100882

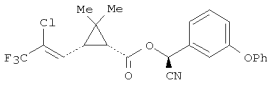
AB Eight representative carboxylic acid chlorides were synthesized by treatment of the corresponding carboxylic acids with bis(trichloromethyl) carbonate. The chloride compds. were cis/trans-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarbonyl chloride, cis-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarbonylchloride, chloroacetyl chloride, trichloroacetyl chloride, benzoyl chloride, 2-chlorobenzoyl chloride, 2-methylbenzoyl chloride, and trans-3-phenyl-2-propenoyl chloride. Yields and purity of the products were 82.1% to 91.7% and 96.4% to 98.9%, resp.

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:718504 CAPLUS
DOCUMENT NUMBER: 141:243704
TITLE: Process for preparing gamma-cyhalothrin
INVENTOR(S): Brown, Stephen Martin; Gott, Brian David
PATENT ASSIGNEE(S): Syngenta Limited, UK
SOURCE: PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074237	A1	20040902	WO 2004-GB726	20040223
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2512429	A1	20040902	CA 2004-2512429	20040223
EP 1599442	A1	20051130	EP 2004-713588	20040223
EP 1599442	B1	20070808		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007774	A	20060214	BR 2004-7774	20040223
CN 1738792	A	20060222	CN 2004-80002246	20040223
JP 2006518729	T	20060817	JP 2006-502318	20040223
AT 369332	T	20070815	AT 2004-713588	20040223
ES 2287702	T3	20071216	ES 2004-713588	20040223
US 20060148892	A1	20060706	US 2005-546138	20050819
IN 2005CN02002	A	20070727	IN 2005-CN2002	20050823

PRIORITY APPLN. INFO.: GB 2003-4132 A 20030224
WO 2004-GB726 W 20040223

OTHER SOURCE(S): CASREACT 141:243704
GI



I

AB A process for the preparation of gamma-cyhalothrin (I) comprising

L2 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
steps of (a) chlorinating (1R)-cis-(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid to give (1R)-cis-(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid chloride and (b) esterifying (1R)-cis-(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid chloride with the (S)-cyanohydrin of 3-phenoxybenzaldehyde.
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2003:511276 CAPLUS
DOCUMENT NUMBER: 139:85510
TITLE: A process for the production of 1R pyrethroid esters via resolution of cyclopropanecarboxylic acids
INVENTOR(S): Brown, Stephen Martin; Gott, Brian David
PATENT ASSIGNEE(S): Syngenta Limited, UK
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003053905	A1	20030703	WO 2002-GB5467	20021204
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002366752	A1	20030709	AU 2002-366752	20021204

PRIORITY APPLN. INFO.: GB 2001-30517 A 20011220
WO 2002-GB5467 W 20021204

OTHER SOURCE(S): CASREACT 139:85510; MARPAT 139:85510
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

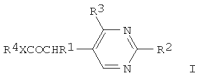
AB A process for the production of 1R pyrethroid esters I [A, B = chlorine or bromine or one of A or B is chlorine and the other is trifluoromethyl; R = a pyrethroid alc. fragment] or II, which process comprises (a) resolving pyrethroid acids III where A and B are as defined above to give a substantially pure 1R cis enantiomer, (b) recovering the 1S cis enantiomer, (c) optionally converting the 1S cis enantiomer acid to a 1S cis enantiomer anhydride, acid chloride or pyrethroid ester containing the group R where R is a pyrethroid alc. fragment; (d) converting the 1S cis enantiomer from step b or step c to the 1R trans isomer; (e) optionally purifying the 1R trans isomer from step d and recycle of the unconverted 1S cis isomer back to step c or d, (f) converting the 1R cis isomer of the acid from step a into corresponding 1R cis isomers of the pyrethroid esters alone, or together with the product of step d or e where the product of step d or e is not already a pyrethroid ester containing the group

L2 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
R. Thus, (1R)-trans-tefluthrin (IV) was prepd. from (±)-cis-(Z)-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylic acid, via enantiomer resoln. with (R)-(+)-α-methylbenzylamine to give the (1S)-cis-isomer, chlorination with SOCl2 in the presence of Et3N, thermal isomerization to the (1R)-trans-acid, chlorination with SOCl2 and esterification with 2,3,5,6-tetrafluoro-4-methylbenzyl alc. The pesticidal and insecticidal activity of IV was detd. [LC50 = 1.8 & LC90 = 4.6 vs. Heliothis virescens;
LC50 = 14.285 (resistance factor 35) vs. Plutella xylostella].
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1989:553826 CAPLUS
DOCUMENT NUMBER: 111:153826
ORIGINAL REFERENCE NO.: 111:25660h,25661a
TITLE: Preparation of pyrimidine-containing carboxylic acid esters having insecticidal and acaricidal activities
INVENTOR(S): McDonald, Edward; Salmon, Roger; Whittle, Alan John; Hutchings, Michael Gordon
PATENT ASSIGNEE(S): Imperial Chemical Industries PLC, UK
SOURCE: Eur. Pat. Appl., 104 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 295839	A2	19881221	EP 1988-305337	19880610
EP 295839	A3	19910731		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
ZA 8803862	A	19890222	ZA 1988-3862	19880530
AU 8817389	A	19881222	AU 1988-17389	19880603
AU 610184	B2	19910516		
GB 2209525	A	19890517	GB 1988-13780	19880610
GB 2209525	B	19910403		
HU 47384	A2	19890328	HU 1988-3052	19880615
HU 203644	B	19910930		
BR 8802952	A	19890110	BR 1988-2952	19880616
DK 8803348	A	19881218	DK 1988-3348	19880617
CN 1030412	A	19890118	CN 1988-103836	19880617
CN 1019574	B	19921223		
JP 01016769	A	19890120	JP 1988-148425	19880617
SU 1801108	A3	19930307	SU 1988-4613066	19881212
PRIORITY APPLN. INFO.:			GB 1987-14233 A	19870617

OTHER SOURCE(S): CASREACT 111:153826; MARPAT 111:153826
GI



I

AB The title compds. [I; R1 = C1-6 alkyl, C2-8 alkenyl, C2-6 alkynyl, C1-4 haloalkyl, C2-8 haloalkenyl, C3-6 cycloalkyl optionally substituted by ≥1 C1-4 alkyl or halo; R2 = C1-8 alkyl, C1-4 haloalkyl, C1-6 alkoxy, halo, C3-6 cycloalkyl optionally substituted by ≥1 C1-4 alkyl or halo, Ph optionally substituted by ≥1 C1-4 alkyl, C1-4 haloalkyl, or C1-4 alkoxy; R3 = H, halo; R4 = residue of an alc. of formula R4-OH which forms an insecticidal ester when combined with

L2 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
chrysanthemic acid, permethrin, or cyhalothrin acid; X = O, S], useful as insecticides or acaricides, were prepd. To a stirred soln. of 0.1 (RS)-2-[2-(1,1-dimethylethyl)pyrimidin-5-yl]-3,3-dimethylbutanoic acid, 0.089 2,3,5,6-tetrafluoro-4-(methoxymethyl)benzyl alc., and 0.002 g 4-dimethylaminopyridine in CH2Cl2, 0.084 g DCC was added and the mixt. was
stirred 18 h to give 0.09 g 2,3,5,6-tetrafluoro-4-(methoxymethyl)benzyl (RS)-2-[2-(1,1-dimethylethyl)pyrimidin-5-yl]-3,3-dimethylbutanoate (II). II at 500 ppm gave 50-79% mortality against Blattella germanica and 80-100% mortality against 9 addnl. pest species, e.g. Tetranychus urticae,
Nephotettix cinticeps, and Diabrotica balteata. An emulsifiable conc. compn. contg. Synperonic OP10 3.0, calcium dodecylbenzenesulfonate 2.0, and Aromasol H 94.0 wt. % was prepd.

L2 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:565740 CAPLUS
DOCUMENT NUMBER: 109:165740
ORIGINAL REFERENCE NO.: 109:27391a,27394a
TITLE: Diacetone alcohol-comprising nonaqueous liquid ectoparasiticidal pour-on formulation
INVENTOR(S): Metzner, Helmut; Steiner, Theodor; Mayer, Peter
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Eur. Pat. Appl., 22 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 273862	A2	19880706	EP 1987-810705	19871130
EP 273862	A3	19880727		
EP 273862	B1	19910710		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
AT 65013	T	19910715	AT 1987-810705	19871130
ES 2037740	T3	19930701	ES 1987-810705	19871130
IL 84701	A	19910415	IL 1987-84701	19871203
AU 8782112	A	19880609	AU 1987-82112	19871204
AU 603163	B2	19901108		
JP 63156716	A	19880629	JP 1987-307375	19871204
ZA 8709114	A	19880831	ZA 1987-9114	19871204
PRIORITY APPLN. INFO.:			CH 1986-4865 A	19861205
			EP 1987-810705 A	19871130

OTHER SOURCE(S): MARPAT 109:165740
AB The title formulation comprises an active ingredient(s), diacetone alc., and auxiliary ingredients. A formulation comprising 2% cypermethrin and 98% diacetone alc., applied at 2 mL/10 kg, totally controlled Damalinia ovis on sheep. An aqueous solution of 2-cyano-3-cyanoamino-3-methylthioacrylonitrile Na salt was treated with HCl, to give 2-chloro-4-amino-5-cyano-6-methylthiopyrimidine, which was suspended in acetonitrile and treated with cyclopropylamine, under refluxing, to give 2-cyclopropylamino-4-amino-5-cyano-6-methylthiopyrimidine. This was treated with NH3 in an autoclave, at 150°, for 15-20 min, to give -2-cyclopropylamino-4,6-diamino-5-cyanopyrimidine.

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